



STIC Search Report

EIC 3600

STIC Database Tracking Number: 94803

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Friday, October 01, 2004**


Case Serial Number: 10/825671

**From: Etelka Griffin
Location: EIC 3600
PK5-Suite 804
Phone: 308-4211**

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Search Notes

**LITIGATION SEARCH
5791412**

Source: [Legal > Area of Law - By Topic > Patent Law > Patents > U.S. Patents > Utility, Design and Plant Patents](#) 

Terms: **patno=5791412** ([Edit Search](#))

954808 (08) 5791412 August 11, 1998

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5791412

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[Link to Claims Section](#)

August 11, 1998

Pressure-boost device for downhole tools

INVENTOR: Myhre, Morton - Tananger, Norway (NO)

APPL-NO: 954808 (08)

FILED-DATE: October 21, 1997


GRANTED-DATE: August 11, 1998

ASSIGNEE-AT-ISSUE: Baker Hughes Incorporated, Houston, Texas, United States (US), 02

CORE TERMS: piston, downhole, check valve, passageway, housing, ball, sub, fluid, seal, shear ...

ENGLISH-ABST:

A pressure-boosting apparatus particularly amenable for use in downhole applications is disclosed. The pressure-boosting apparatus employs an unbalanced piston which is initially fixated in a run-in position. The piston has a flowpath therethrough in which is mounted a check valve. Initially, pressure is applied to above and below the piston which results in an unbalanced force on the piston due to its configuration. Flow to the tool initiates its actuation at this time. When the unbalanced force reaches a predetermined level, the piston is no longer fixated to the housing and begins to accelerate. Acceleration of the piston closes the check valve due to the sudden decrease in pressure behind the check valve and an increase in pressure in front of the check valve as the fluid volume in front of the piston is compressed. Due to the proportional relationship between pressure and area, a magnification of force originally delivered by the pump is achieved for completion of the setting of a downhole tool such as a packer or bridge plug or the like.

Source: [Legal > Area of Law - By Topic > Patent Law > Patents > U.S. Patents > Utility, Design and Plant Patents](#) 

Terms: **patno=5791412** ([Edit Search](#))

View: **Custom**

Segments: Abst, Assignee, Date, Granted-date, Inventor

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Query/Command : PRT SS 1 MAX 1 LEGALALL

1 / 1 PLUSPAT - @QUESTEL-ORBIT - image

Patent Number :

US5791412 A 19980811 [US5791412]

Title :

(A) Pressure-boost device for downhole tools

Patent Assignee :

(A) BAKER HUGHES INC (US)

Patent Assignee :

Baker Hughes Incorporated, Houston TX [US]

Inventor(s) :

(A) MYHRE MORTON (NO)

Application Nbr :

US95480897 19971021 [1997US-0954808]

Filing Details :

Cont. of US514876 19950814 [1995US-0514876] (Abandoned)

Priority Details :

US51487695 19950814 [1995US-0514876]

US95480897 19971021 [1997US-0954808]

Intl Patent Class :

(A) E21B-023/04

EPO ECLA Class :

E21B-023/04

E21B-033/127D

US Patent Class :

ORIGINAL (O) : 166106000; CROSS-REFERENCE (X) : 166243000

Document Type :

Basic

Citations :

US2624412; US2881841; US3139140; US3344861; US3381766; US4733568;

US4892149; US4928769; US5070941; EP0661459 A1; SU604973; SU926238;

GB1068355; GB2100347; WO9107566

Publication Stage :

(A) United States patent

Abstract :

A pressure-boosting apparatus particularly amenable for use in downhole applications is disclosed. The pressure-boosting apparatus employs an unbalanced piston which is initially fixated in a run-in position. The piston has a flowpath therethrough in which is mounted a check valve. Initially, pressure is applied to above and below the piston which results in an unbalanced force on the piston due to its configuration. Flow to the tool initiates its actuation at this time. When the unbalanced force reaches a predetermined level, the piston is no longer fixated to the housing and begins to accelerate. Acceleration of the piston closes the check valve due to the sudden decrease in pressure behind the check valve and an increase in pressure in front of the check valve as the fluid volume in front of the piston is compressed. Due to the proportional relationship between pressure and area, a magnification of force originally delivered by the pump is achieved for completion of the setting of a downhole tool such as a packer or bridge plug or the like.

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Patent Number :

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Application Number :

US95480897 19971021 [1997US-0954808]

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20040803 US/RF-A

REISSUE APPLICATION FILED

EFFECTIVE DATE: 20040415

Update Code :

2004-34

1 / 1 CRXX - ©CLAIMS/RRX

Patent Number :

5,791,412 A 19980811 [US5791412]

Patent Assignee :

Baker Hughes Inc

Actions :

20040415 REISSUE REQUESTED

ISSUE DATE OF O.G.: 20040803

REISSUE REQUEST NUMBER: 10/825671

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3625

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